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			STOKELY-COLLINS, JASMINE N		
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			2623		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Applicati	on No.	Applicant(s)			
	10/625,7	12	SZUCS ET AL.			
Office Action Summary		r	Art Unit			
	JASMINE	STOKELY-COLLINS	2623			
The MAILING DATE of this comn Period for Reply	unication appears on the	e cover sheet with the c	correspondence ad	ddress		
A SHORTENED STATUTORY PERIOR WHICHEVER IS LONGER, FROM THE - Extensions of time may be available under the provise after SIX (6) MONTHS from the mailing date of this comparison of the provise after SIX (6) MONTHS from the mailing date of this comparison of the provise specified above, the maximum of the provise section	MAILING DATE OF The ons of 37 CFR 1.136(a). In no evolution on the communication. In statutory period will apply and we ply will, by statute, cause the apply after the mailing date of this control of the control of t	HIS COMMUNICATION rent, however, may a reply be tin rill expire SIX (6) MONTHS from blication to become ABANDONE	N. nely filed the mailing date of this of (35 U.S.C. § 133).	•		
Status						
 Responsive to communication(s) This action is FINAL. Since this application is in condit closed in accordance with the practice. 	2b)⊡ This action is r on for allowance except	non-final. for formal matters, pro		e merits is		
Disposition of Claims						
4)	s/are withdrawn from co jected.	nsideration.				
Application Papers						
9) The specification is objected to by 10) The drawing(s) filed on is/a Applicant may not request that any of Replacement drawing sheet(s) included the control of th	re: a) accepted or by bjection to the drawing(s) bling the correction is required.	pe held in abeyance. See red if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 C	, ,		
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Revie 3) Information Disclosure Statement(s) (PTO/SB/0 Paper No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate			

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed on 1/30/2008 have been fully considered but they are not persuasive.

Regarding applicant's argument for independent claim 1, while the particular GUI that Wang uses to illustrate his invention lacks the functionality to make it an application, it is well known in the art that a GUI can be an application, as some GUIs include applets. Wang teaches various GUIs sent through his network and received by his device may be written in HTML (column 9 lines 30-32), which supports embedding JAVA applets. Therefore, Wang's teaching of sending HTML GUIs implies that his network supports transporting application-style GUIs as well. One of ordinary skill in the art would recognize the ability of Wang's system to transport applications.

By the above argument that Wang's system does teach the ability to send an application, Ceulaer's MHP set-top box is analogous to Wang's DTV. Both are devices thru which a user can receive and run applications, where Wang's device receives and runs GUIs which can be applications and Ceulaer's MHP set-top box receives and runs MHP applications. Therefore, it would be obvious for one of ordinary skill in the art to refer to Ceulaer in order to explore alternative types of applications which Wang's network could transport.

Regarding applicant's argument for claim 9, Ceulaer discloses in page 1 section 0004 that services include applications ("these devices are capable of receiving

hundreds of broadcast services including television channels, applications etc").

Therefore the office is justified in affiliating a "service" with an "application".

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 6-15, 17-19, 22-23, and 25-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al (US 7,200,683 B1) in view of Ceulaer et al (US 2002/0047860 A1).

Regarding claim 1, Wang teaches a terminal device (figure 2 element 102: DTV) comprising

a broadcast interface for receiving a broadcast transport stream (column 7 lines 10-17 teach a DSS network interface unit for receiving satellite broadcasts, which could then be sent to the DTV. Column 8 lines 8-12 disclose the client-server relationship between the DTV and DSS);

a local network interface (1394 serial bus) for connecting said terminal device to a local network (column 7 lines 10-17, figure 2), and for receiving local network transport streams emanating from other network device connected to said local network (column 8 lines 63-67),

So that local network applications (e.g. GUI) to be launched at said terminal device are transmitted within said local network transport streams and are received via said local network interface (column 8 line 67- column 9 line 5).

Wang does not teach the terminal device is an MHP device, or that MHP applications are being sent through the broadcast stream.

Ceulaer discloses an MHP set-top box (MHP terminal device) and integrated television set (page 1 section 0004) which is analogous to Wang's DSS network interface unit and DTV, wherein MHP applications are sent through broadcast streams (page 1 section 0004, page 5 section 0091 where services are defined as applications in page 5 section 0101). It would have been obvious to one of ordinary skill in the art at the time the invention was made to alter Wang's DSS-NIU and DTV to incorporate the MHP capabilities of Ceulaer's MHP set-top box and television set for the benefit of integrating MHP technology into the network that would allow interactivity.

Regarding claim 6, Wang further teaches that at said terminal device, the received application byte code of said local network applications is passed to a layer, whereby an underlying transport protocol used on said local network is hidden from said MHP layer (column 6 lines 21-35).

Regarding claim 7, Wang further teaches that said local network is a IEEE 1394 network, a wireless LAN, a wired LAN, a wired or wireless IP network, or any other kind of local network (column 4 line 65 - column 5 line 10).

Regarding claim 8 Wang further teaches that on said local network, any kind of middleware is used for exchanging messages and/or commands (column 7 lines 46-62).

Regarding claim 9, Wang in view of Ceulaer teaches the MHP terminal device of claim 1. Wang further teaches a graphical user interface resources, display means, and user input means that enable a user to interact with said local network MHP applications (column 8 lines 35-54) and with said broadcast MHP applications.

Wang further teaches a graphical user interface resources, display means, and user input means that enable a user to interact with said broadcast MHP applications (page 1 section 0008).

Regarding claim 10, see analysis of claim 9.

Regarding claim 11, Wang further teaches that at said MHP terminal device, a graphical user interface is updated in order to show the availability of

said local network MHP applications and/or of said other network devices (column 8 line 56- column 9 line 5).

Regarding claim 12, Wang further teaches said local network MHP application is an application for remotely accessing and/or controlling the respective network device from which said local network MHP application has been received (column 5 lines 33-48, column 6 lines 47-50).

Regarding claim 13, Wang further teaches remote access and remote control are effected by transmitting commands from the MHP terminal via the local network to the respective network device (column 8 lines 55 - column 9 line 8).

Regarding claim 14, Wang further teaches said other network devices comprise at least one of a NCAM, an AV content server (column 6 lines 2-3), a transcoder, a DVB recorder, a home automation server, or any other kind of network device (column 5 lines 7-10).

Regarding claim 15, Wang teaches a network device (DVCR), characterized by storage means for storing local network applications (10), or a means to generate such MHP applications (figure 4b element 202), that are to be transmitted to a terminal device (DTV),

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a local network interface (1394 serial bus) for connecting said network device to a local network, and for transmitting a local network transport stream to said terminal device, wherein local network applications (GUI) to be launched at said terminal device are transmitted within said local network transport stream (column 4 line 65 – column 5 line 21), and the use of "multiplexing means for multiplexing said local network MHP application (10) into said local network transport stream" is implied by column 4 lines 65-67 –The 1394 serial bus supports both time-multiplexed audio/video (A/V) stream and standard IP communications --.

Wang does not disclose the use of MHP technology. De Ceulaer teaches the use of MHP technology, as explained in the analysis of claim 1.

Regarding claim 17, see analysis of claim 9.

Regarding claim 18, see analysis of claim 12.

Regarding claim 19, see analysis of claim 13.

Regarding claim 22, see analysis of claims 1 and 15.

Regarding claim 23, see analysis of claim 1.

Regarding claim 25, see analysis of claim 1.

Regarding claim 26, see analysis of claim 6.

Regarding claim 27, see analysis of claim 9.

Regarding claim 30, Wang teaches a computer readable medium having computer readable

instructions stored thereon (column 6 line 59-column 7 line 2 discloses software for the 1394 bus, which handles transport) that when executed by a processor performs steps comprising:

transmitting a local network application together with a local network transport stream from said network device (column 8 lines 63- column 9 line 8 where transmitting an HTML GUI shows the capability to transport an application as a GUI written in HTML can have an embedded JAVA applet, giving the GUI the necessary functionality to qualify it as an application),

launching said local network application at said terminal device (column 8 line 67- column 9 line 5); and

transmitting commands and/or messages via said local network to said network device in order to remotely access and/or control said network device (column 8 lines 55-63).

Wang does not teach the terminal device is an MHP device, or that MHP applications are being sent through the broadcast stream.

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Ceulaer discloses an MHP set-top box (MHP terminal device) and integrated television set (page 1 section 0004) which is analogous to Wang's DSS network interface unit and DTV, wherein MHP applications are sent through broadcast streams (page 1 section 0004, page 5 section 0091 where services are defined as applications in page 5 section 0101).

Regarding claim 31, Wang teaches a computer program product (application software, column 8 line 63-column 9 line 8) having computer readable instructions therein, that when executed by a processor implement an apparatus comprising:

means for transmitting a local network application together with a local network transport stream from a network device to a terminal device (column 8 line 63-column 9 line 5);

means for launching said local network application at said terminal device (column 8 lines 55-63 disclose that the GUI runs on the terminal device.

Furthermore, Wang's DTV modified to be an MHP TV, as taught by Ceulaer, has the capabilities to run applications. The combination of these two teachings would result in any applications transmitted to a terminal device launching on the terminal device just as the GUI is launched in Wang's terminal device); and means for transmitting commands and/or messages via said local network to

said network device in order to remotely access and/or control said network device (column 8 line 57-column 9 line 8).

Wang does not teach the terminal device is an MHP device, or that MHP applications are being sent through the broadcast stream.

Ceulaer discloses an MHP set-top box (MHP terminal device) and integrated television set (page 1 section 0004) which is analogous to Wang's DSS network interface unit and DTV, wherein MHP applications are sent through broadcast streams (page 1 section 0004, page 5 section 0091 where services are defined as applications in page 5 section 0101).

3. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al (US 7,200,683 B1) in view of Ceulaer et al (US 2002/0047860 A1), and further in view of Soepenberg et al (US 2002/0059645 A1).

Regarding claim 2, Wang in view of Ceulaer teaches an MHP terminal device according to claim 1, characterized in that said local network transport stream comprises at least one of AV data, program specific information, MHP application byte code, service information (column 8 line 63 – column 9 line 8.

Wang in view of Ceulaer does not teach said local network transport stream is a data stream according to the MPEG-2 standard.

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Soepenberg teaches sending applications in a MPEG-2 transport stream (page 1 section 0003). Soepenberg further discloses that the features of his disclosure can be used in an MHP environment (page 3 section 0038). It would have been obvious to one of ordinary skill on the art at the time the invention was made to send the MHP applications of Wang in view of Ceulaer in MPEG-2 format, as taught by Soepenberg, for the benefit of being able to use interlacing, which would reduce bandwidth and therefore reduce cost.

4. Claims 3-5, 16, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al (US 7,200,683 B1) in view of Ceulaer et al (US 2002/0047860 A1), and further in view of ETSI TS 101 812 V1.1.1, *Digital Video Broadcasting Multimedia Home Platform Specification 1.0*.

Regarding claim 3, Wang in view of Ceulaer teaches an MHP terminal device according to claim 1.

Wang in view of Ceulaer does not disclose that said terminal device is characterized by a resident application that monitors both said broadcast interface and said local network interface in order to detect MHP applications transmitted within said broadcast transport stream or within said local network transport stream, and that initiates a loading of said MHP applications.

Page 49 section 9.1.2 of ETSI's MHP specification discloses that the MHP terminal device shall monitor signaling for changes in applications, including the

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termination or addition of new applications. Additionally, ETSI teaches the terminal device launching said applications both automatically and explicitly. It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of the ETSI MHP specification with the teachings of Wang in view of Ceulaer for the benefit of having an interface to receive and start applications.

Regarding claim 4, Wang in view of Ceulaer teaches an MHP terminal device according to claim 1.

Wang in view of Ceulaer does not disclose that said terminal device is characterized by an application manager running on said MHP terminal device that is responsible for download, maintenance, and life-cycle management of both said broadcast MHP applications and said local network MHP applications.

ETSI'S MHP specification teaches an application manager in the system software that manages the life-cycle of all applications (page 33 section 5.2.2.1). Page 49 section 9.1.2 discloses downloading and maintenance of applications. Page 51, section 9.2.2, second paragraph discloses that the application manager is resident on the system. It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of the ETSI MHP specification with the teachings of Wang in view of Ceulaer for the benefit of having an interface to begin, end, update, and otherwise manage the MHP applications.

Regarding claim 5, Wang in view of Ceulaer and ETSI teaches an MHP terminal device according to claim 4. ETSI further teaches that said application manager maintains an application database in which each downloaded MHP application is registered (page 469 AppsDatabase).

Regarding claim 16, Wang in view of Ceulaer teaches a network device according to claim 15.

Wang in view of Ceulaer does not teach an object carousel generator for segmenting said local network MHP applications into a set of data packets, and for repeatedly transmitting said set of data packets.

etast the use of object carousels (Annex B). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the object carousel of the ETSI MHP specification with the network device taught by Wang in view of Ceulaer for the benefit of having a transport protocol for said MHP applications.

Regarding claim 24, see analysis of claim 3.

5. Claims 20-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al (US 7,200,683 B1) in view of Ceulaer et al (US 2002/0047860 A1), and further in view of Woodruff (US 2003/0046592 A1).

Regarding claim 20, Wang in view of Ceulaer teaches a network device according to claim 15.

Wang in view of Ceulaer does not teach said network device is embedded in said MHP terminal device itself.

Woodruff discloses a network device (PVR) incorporated into a digital television (page 2 section 0036). It would have been obvious to one of ordinary skill in the art at the time the invention was made to alter the DTV taught by Wang in view of Ceulaer to include an imbedded recording device, as taught by Woodruff, for the benefit of having recording capabilities without having to house an additional physical device within the network. Fewer devices make the network more compact.

Regarding claim 21, see analysis of claim 20. A PVR employs the same functionality as a DVB recorder.

Conclusion

2. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASMINE STOKELY-COLLINS whose telephone number is (571) 270-3459. The examiner can normally be reached on M-Th 9:30-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Koenig can be reached on (571) 272-7296. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Jasmine Stokely-Collins/ Examiner, Art Unit 2623

/Andrew Y Koenig/ Supervisory Patent Examiner, Art Unit 2623